

REINFORCED DESIGN OF BATHROOM WALL MOUNTED RACK CONNECTOR

RELATED U.S. APPLICATIONS

Not applicable.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not applicable.

REFERENCE TO MICROFICHE APPENDIX

Not applicable.

FIELD OF THE INVENTION

[0001] The present invention relates generally to a bathroom wall mounted rack, and more particularly to a wall mounted rack which is connected to the wall by a bolt for mounting.

BACKGROUND OF THE INVENTION

[0002] There are different functions of bathroom wall racks according to different frame patterns, such as towel rack, tissue rack, soap rack and handle rack, etc. The improvement made in this invention is a structure, in which the frame of bathroom mounted rack is connected with the wall mount. As for the traditional structure, the frame of bathroom wall mounted rack is generally connected with the wall mount by means of bolting, jointing and riveting. As a matter of fact, these connecting means are comparatively insufficient to the radial orientation of the connector end of frame. While because the bathroom wall rack generally becomes a handle for people casually in a

bathroom, especially at the moment people are going to slip, the action of hands on the wall rack is so powerful that parts of bolting, jointing and riveting between the wall rack frame and wall mount mentioned above are usually likely to unscrew or split. At the other angle, it is required in design to take supporting strength of a handle rack into consideration. In a purpose of time saving and efficient assembling, practitioners gradually tend to adopt the structure of single wall mount with curvilinear handle racks. Therefore, the combining strength between the frame and wall mount of the structure becomes an important key. The prior structure by means of bolting, jointing and riveting is unable to meet the requirement of this structure due to insufficiency in radial supporting strength.

[0003] Based upon the aforementioned disadvantages of conventional bathroom wall rack, this industry shall assume the responsibility to make pioneering R&D and innovation for an ideal utility model.

BRIEF SUMMARY OF THE INVENTION

[0004] The developed functions of this invention are as follows:

[0005] 1. It provides an innovated bathroom wall mounted rack combined and orientated by means of bolt 30 traverse between the connector end 21 of frame 20 and the wall mount 10, which is really a new invention in the industry and meets the requirements of novelty of new model patents.

[0006] 2. With combination and orientation by means of bolt traverse, it can actually improve the disadvantage of the prior wall rack that is easy to unscrew or split because the frame and wall mount are connected by means of bolting, jointing and riveting. The structure that two connector ends are embedded in fillister of wall mount 10 by means of bolt 30 traverse through frame 20 connector end 21 will enable the frame to have an effect of firm support and orientation to actually avoid the frame

from circumvolution, loose and split so as to meet the advancement requirements of more firmness and durability.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0007] FIG. 1 shows a perspective view of the present invention.

[0008] FIG. 2 shows an exploded view of the present invention.

[0009] FIG. 3 shows a cross-sectional view of the present invention.

[0010] FIGS. 4-5 show the cross-sectional view of another lateral of bolt and fillister.

[0011] FIG. 6-7 show the assemble bathroom wall mounted rack.

DETAILED DESCRIPTION OF THE INVENTION

[0012] The features and the advantages of the present invention will be more readily understood upon a thoughtful deliberation of the following detailed description of a preferred embodiment of the present invention with reference to the accompanying drawings.

[0013] As shown in FIGS. 1-3, a bathroom wall mounted rack embodied in the present invention comprises:

[0014] wall mount 10, with wall end 11 as one end. Holes are set on the wall mount 10 and fixed on the wall end by bolts 05. In the center of wall mount, one frame is perforated by frame holes 13 to the wall end 11. In addition, a cover 06 may be set on the outside in front of wall mount 10 to conceal different bolts in a purpose of prettification; and

[0015] fillister 14, installed on two opposite sides of the wall end 11 of wall mount 10 and the frame holes 13;

[0016] frame 20, without fixed pattern, such as towel rack, tissue rack, soap rack and handle rack, etc. The connector end 21 of frame 20 just goes through the frame holes 13 on the frame in the center of wall mount 10 mentioned above; and

[0017] through hole 22, set on the connector end 21 of frame 20 in the condition of radial transfixion. The two ends of through hole 22 are corresponding to the fillisters 14 of wall mount 10;

[0018] bolt 30 going through the through hole 22 of frame 20 connector end 21. The two ends protrude on two sides of frame 20 connector ends 21 and further embed into two fillisters 14 of wall mount 10 correspondingly so as to connect and fix the frame 20 and the wall mount 10.

[0019] Among which, the fillister 14 set on the wall mount 10 is in a space structure of sideling taper 15 with two side walls.

[0020] Moreover, among which, the bolt 30 is in a structure of hollow tube with C-shape cross section, which makes the outside diameter of the bolt 30 elastic so as to be fixed in the fillister tightly. In addition, when this kind of bolt 30 is embedded into the fillister 14 of sideling taper 15 with side walls mentioned above Please see FIGS. 4 and 5, and the wall mount 10 is fixed on the wall end, this bolt 30 will be wedged in the direction of the sideling taper 15 tip of fillister 14. The further it is wedged, the tighter it gets, and therefore it is more fixed in orientation.

[0021] Among which, the bathroom wall mounted rack uncovered in this invention may be in a structure of single wall mount (as shown in FIG. 6); or be in a structure of double wall mounts (as shown in FIG. 7).

[0022] With the structure and composition mentioned above, the assembling steps of connectors of the bathroom wall mounted rack uncovered in this invention are as follows:

[0023] Firstly, the connector ends 21 of frame 20 go through the frame holes 13 of wall mount 10 frame; then the bolts 30 go through the through holes 22 of the frame 20 connector ends 21; the fillisters 14 of wall mount 10 are corresponding with two ends of the bolt 30 to enable the bolt 30 to be embedded in it. Finally, the wall mount 10 may be fixed on the wall end. Meanwhile, the bolt 30 is therefore limited in certain place and the frame 20 and wall mount 10 is combined together.